

Abstract

A system and method for balancing the load on virtual servers managed by server array controllers at separate data centers that are geographically distributed on a wide area network such as the Internet is described. The virtual servers provide access to resources associated with a domain name request by a client program. When a Primary Domain Name System (DNS) determined the requested domain name is delegated to a EDNS, the EDNS employs metric information and statistics to resolve an IP address for a virtual server that is selected by the EDNS to optimally balance the load and provide access to resources associated with the domain name. The EDNS may load balance name servers. Additionally, the name server load balancing system may bridge disparate content delivery networks. Internet addresses are divided into geographical information that is used to delegate traffic. Also, metric information is collected and analyzed to help distribute the traffic.

